

39. "new" A vector comprising the polynucleotide of claim 34.
40. "new" A chimeric gene comprising the polynucleotide of claim 34 operably linked to a regulatory sequence.
41. "new" A method for transforming a cell comprising transforming a cell with the polynucleotide of claim 34.
42. "new" A cell comprising the chimeric gene of claim 40.
44. "new" A method for producing a plant comprising transforming a plant cell with the polynucleotide of claim 34 and regenerating a plant from the transformed plant cell.
45. "new" A plant comprising the chimeric gene of claim 40.
46. "new" A seed comprising the chimeric gene of claim 40.
47. "new" A method for isolating a polypeptide encoded by the polynucleotide of claim 34 comprising isolating the polypeptide from a cell containing a chimeric gene comprising the polynucleotide operably linked to a regulatory sequence.